National Institutes of Health 101

An introduction to the NIH and eRA enterprise that supports its public health mission.

Agenda

- **Overview of NIH and eRA**
- **eRA systems**
  - **Commons**
  - **IMPACII**
  - **iEdison**
- **eRA Architecture**
- **FY 2004 Priorities**
- **Q & A**

National Institutes of Health

- **The National Institutes of Health is the steward of medical and behavioral research for the Nation. It is an Agency under the U.S. Department of Health and Human Services**

- **The NIH comprises the Office of the Director and 27 Institutes and Centers.**

National Institutes of Health

Much of the biomedical research in the United States is supported by the Federal Government, and primarily by the National Institutes of Health (NIH)

Grants & Cooperative Agreements

- **Assistance**
- **Patron/Partner**
- **Stimulate & Support Research**
- **Public Purpose**
- **Mostly Investigator Initiated**
- **Funded by Priority Score Order**
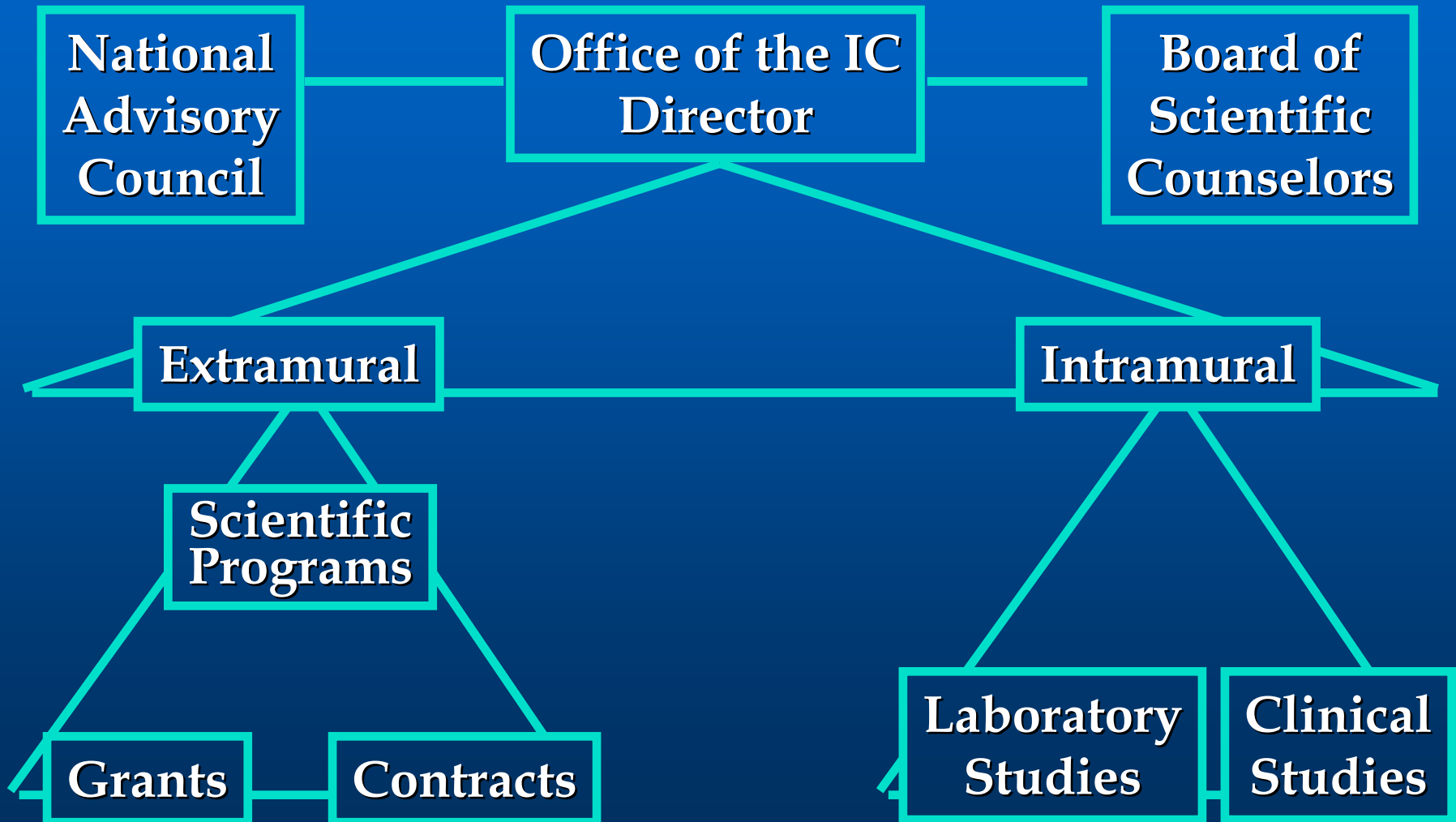- **80% of the NIH budget $**

Contracts

- **Purchaser**
- **Acquire Goods and Services**
- **Direct Benefit/Use by the Government**
- **Mostly Government Initiated**
- **Best Buy - Negotiated**
- **10 % of the NIH budget $**

National Institutes of Health

Office of the Director

- **National Institute on Aging**
- **National Institute on Alcohol Abuse and Alcoholism**
- **National Institute of Allergy and Infectious Diseases**
- **National Institute of Arthritis and Musculoskeletal and Skin Diseases**
- **National Cancer Institute**
- **National Institute of Child Health and Human Development**

- **National Institute on Deafness and Other Communication Disorders**
- **National Institute of Dental and Craniofacial Research**
- **National Institute of Diabetes and Digestive and Kidney Diseases**
- **National Institute on Drug Abuse**
- **National Institute of Environmental**
- **National Eye Institute**

- **National Institute of General Medical Sciences**
- **National Heart, Lung, and Blood Institute**
- **National Human Genome Research Institute**
- **National Institute of Mental Health**
- **National Institute of Neurological Disorders and Stroke**
- **National Institute of Nursing Research**

- **National Center for Complementary and Alternative Medicine**
- **Fogarty International Center**
- **National Center for Research Resources**
- **National Library of Medicine**

- **Clinical Center**
- **Center for Information Technology**
- **Center for Scientific Review**

A Typical Institute/Center

National Advisory Council

Office of the IC Director

Board of Scientific Counselors

Extramural

Intramural

Scientific Programs

Grants

Contracts

Laboratory Studies

Clinical Studies

Center for Scientific Review (CSR)
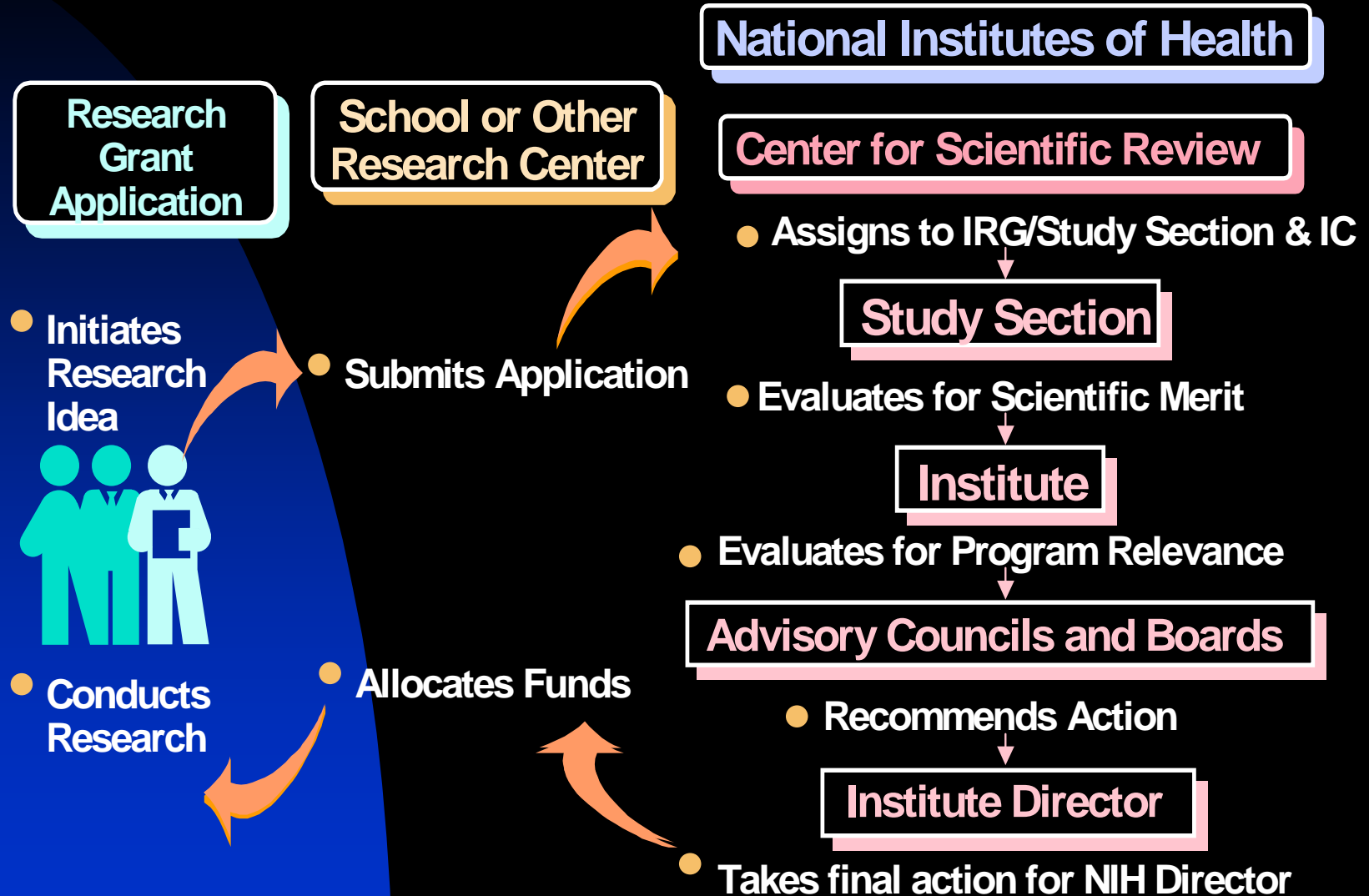
Focal Point for Initial Review at NIH

- **Central receipt point for PHS applications**

- **Referral to Institutes and to IRGs and Study Sections**

- **Review of most research and research training applications for scientific merit**

Applications Submitted to NIH

Research Grant

Research Grant Application

School or Other Research Center

National Institutes of Health

Center for Scientific Review

- Initiates Research Idea

- Submits Application

- Assigns to IRG/Study Section & IC

Study Section

- Evaluates for Scientific Merit

Institute

- Evaluates for Program Relevance

Advisory Councils and Boards

- Conducts Research

- Allocates Funds

- Recommends Action

Institute Director

- Takes final action for NIH Director

Receipt Dates * **

Depend on the Type of Application

- **Jan, May, Sept 10: Institutional Training Grant**
- **Jan, May, Sept 25: Academic Research Enhancement**
  Award
- **Mar, Jul, Nov 1:   Revised, Competing Continuations,**
  and Supplements
- **April, Aug, Dec 1:   Small Business Technology Transfer**
- **April, Aug, Dec 5:   Individual NRSA**
- **April, Aug, Dec 1:   Small Business Innovation Research**
- **May, Sept, Jan 1:   AIDS**

* RFA and RFP dates defined in the solicitations

** ALWAYS check with the Institute to verify

NIH Enterprise Systems
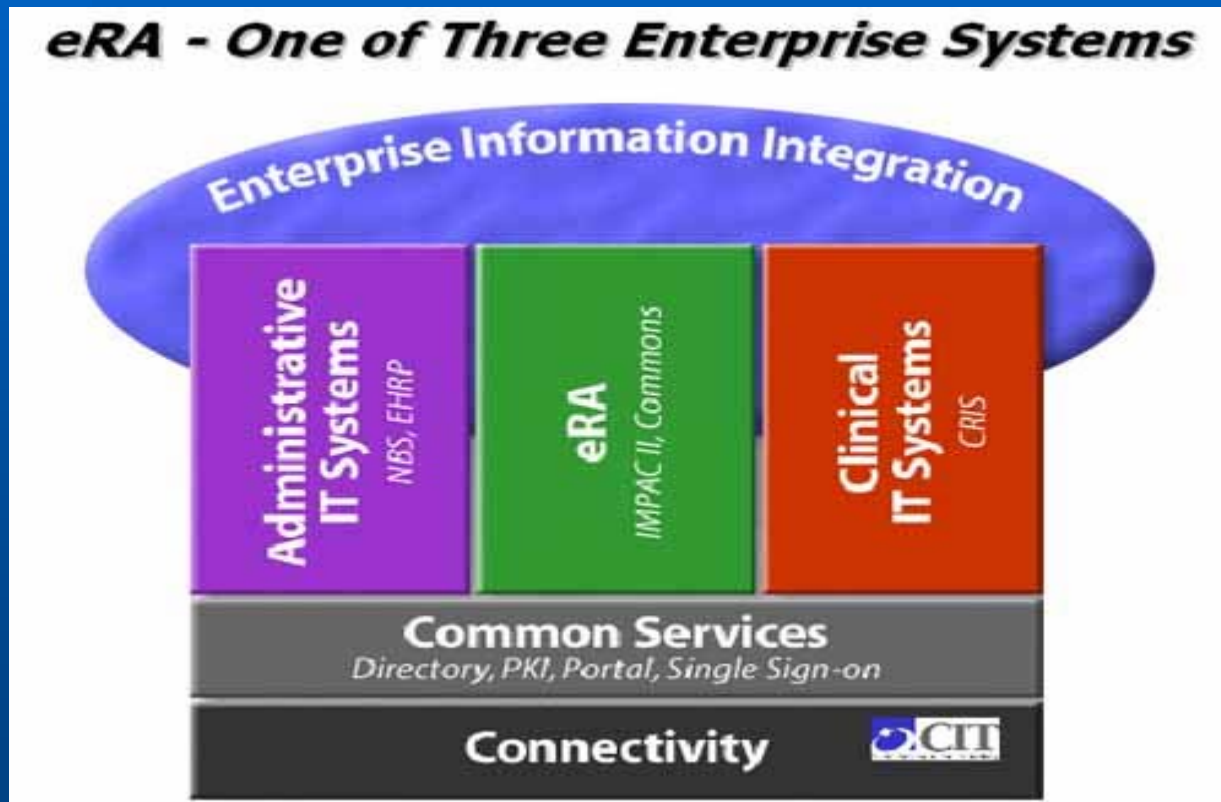
Electronic Research Administration (eRA)

- **about $20.5 billion in fiscal year 2003**
- **grant awards to some 50,000 investigators worldwide**
- **Receives more than 46,000 competing (1 & 2) grant applications**
- **3,160 meetings to review those applications.**

Organizational Chart

IT Oversight Committee

Chief Information Officer (CIO)

Extramural Activities Working Group

eRA Project Team Working Group

Mechanism Support Working Group

CSR Working Group

Ad Hocs

eRA Project Manager

eRA Director

Business Area Advocates

User Groups

Integration

Oracle

Office of Project Management

Systems Management & Support Branch

Requirements Branch

Architecture Branch

Planning, Communications & Outreach Branch

Systems Quality Assurance & Interfaces Branch

Analysis, Design, & Development Management Branch

User Support

Systems Operations & Management

Data Quality Assurance

Software Quality Assurance

eRA Project Goals

- Implement user-driven, highly reliable, secure systems that provide a complete set of user-friendly tools that help ensure high data quality and integrity of the grant process.
- Provide a state-of-the-art architecture that allows the systems to be responsive to changes in business process, policies, and technology.
- Reach out to the community to ensure they are informed, trained, listened to and responded to.
- Capitalize on extension systems to save costs for the Institutes and Centers (ICs) and build them within the enterprise system as appropriate.
- Provide a good return on investment.

eRA Project Drivers

- **Public Law 106, 107**
  - improve the effectiveness and performance of Federal grant programs,
  - simplify grant application and reporting requirements,

- **The Government Paperwork Elimination Act requires that, when practicable, Federal agencies use electronic forms, filing and signatures to conduct official business by 2003**
- **Users**
  - Actively engaged in priority setting
  - Work with Business Advocates and Analysts to collect requirements

What is eRA?

- **The electronic research administration (eRA) is NIH's infrastructure for conducting interactive electronic transactions for the receipt, review, monitoring, and administration of NIH grant awards to biomedical investigators worldwide**

FOR MORE INFO...

Era.nih.gov

Impacii.nih.gov

NIH eRA Objective:
Full Electronic Grants Administration

Applicant/Grantee Interface – NIH Commons

225,000,000
Pieces of Paper

NIH Grants Database Interface – IMPAC II

1.6 million transactions daily

NIH Institutes and Centers

eRA is an Evolving Project

IMPAC I
Mainframe

Past

IMPAC II/ Commons
Client Server

Present

eRA
J2EE

Future

Operational Platform

Software Development

Business Process Re-engineering

NIH's Link to e-Government
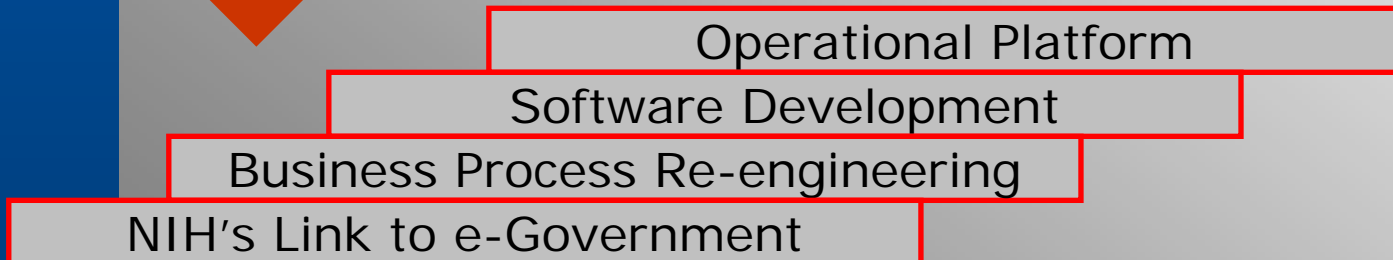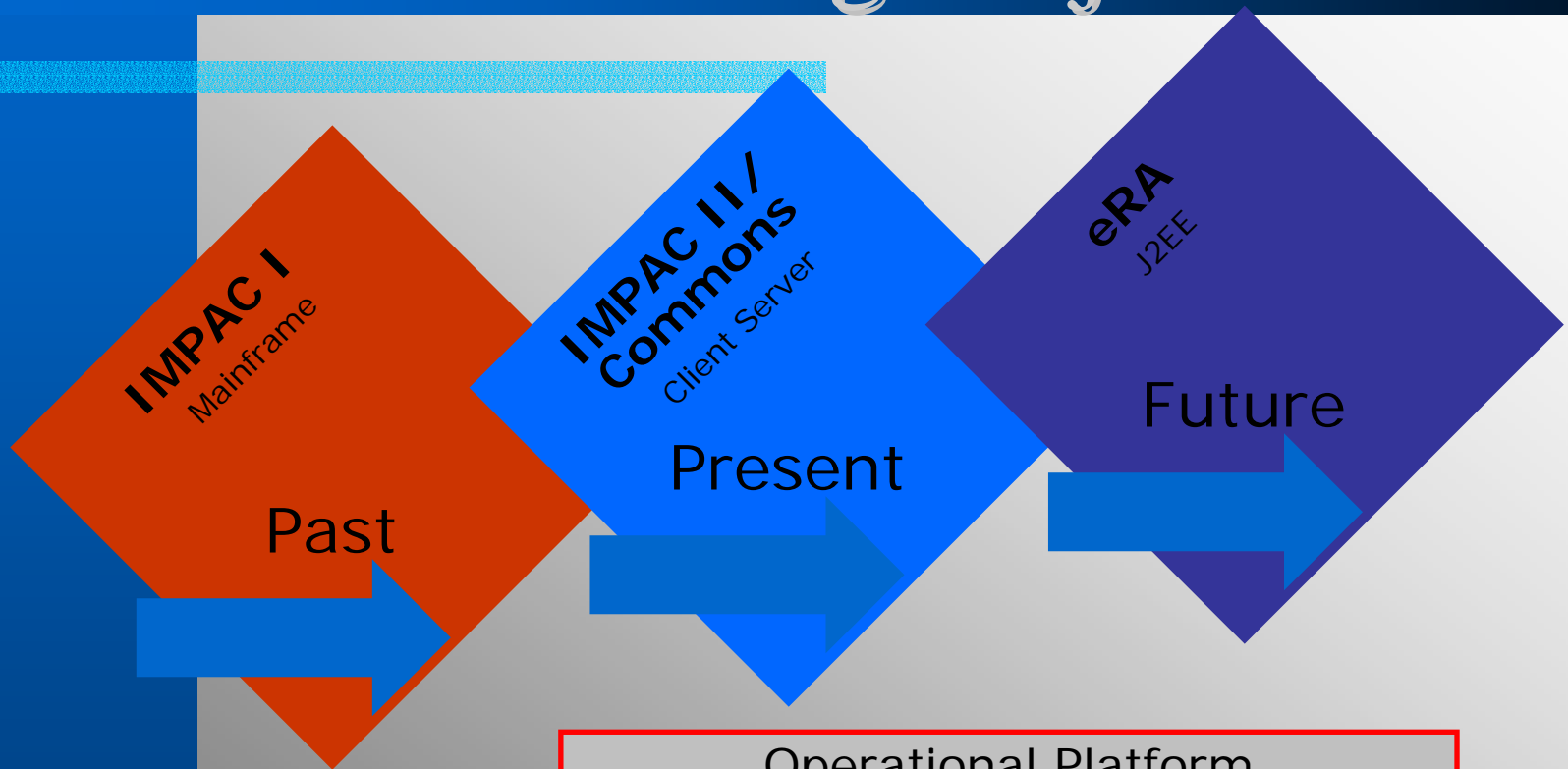
eRA Requirements Management

- **eRA project management is driven by user input**

- **Software development driven by user requirements**

- **More than 600 volunteer advocates represent interests of ICs and grant processing functional areas**

eRA – (External & Internal Systems)

- **Commons –**
  - **Commons enables communication with NIH's partners in the research community**

- **IMPACII –**
  - **NIH staff uses IMPAC II**

- **iEdison –**
  - **U.S. Government's Internet center for reporting inventions developed with government funding.**

eRA Commons

- **Status**
- **Electronic Streamlined Non-Competing Award Process (eSNAP)**
- **Financial Status Report (FSR)**
- **Internet Assisted Review (IAR)**
- **X-Train**
- **CRISP**
- **Competitive Grant Applications (CGAP)**
- **Commons Profile Administration**

Commons Home Page

http://commons.era.nih.gov

Commons Registration Information

Application "Status"

- **General Status information**
  - **Access Level dependent upon Role (PI sees Summary Statement, Priority Score, Percentile)**
  - **Dates**
- **Link to NGA, Summary Statement, Abstract**
  - **(Grant Folder coming in March)**
- **NIH contact information**
- **Link to Study Section information**
- **Availability of pre-populated forms for renewals**

Grant Status

Proposal Search Results - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: tp://impacwebdev2.oer.od.nih.gov:8059/commons/status/proposalResults.jsp;jsessionid=2416accc70fc4a8a9820c292a0a70acf ▼ What's Related

NATIONAL INSTITUTES OF HEALTH
eRA Commons

Welcome statesnap4
Institution: STATE UNIVERSITY
Authority: FSR PI SO
Log-out

Home | Administration | Institution Profile | Personal Profile | Status | eSNAP | X-Train | FSR | Links | Help

Search Proposals | PI Status | Search Type 5 Progress Reports |

Proposal Search Results

Date: 01/06/2003

Search Criteria

PI Last Name: s m i t h   **Grant Number:** ****MH******-******

Proposal Report 1 - 9 out of 9 records

Grant Number ⬍	Proposal Title	PI Name ⬍	Grant Status	Budget Start Date ⬍	Summary Links
2R03MH0094214-1	COGNITIVE DISSOCIATIONS IN WILLIAMS SYNDROME	SMITH, ROBERT C.	AWARDED	07/01/1998	Notice of Grant Award
2R03NH2094288-3	MECHANISMS OF BLOCK OF NMDA ACTIVATED CHANNELS	SMITH, ROBERT C.	AWARDED	09/01/1999	Notice of Grant Award
2A00NU6794214-1	Interaction of Ions with NMDA Receptors	SMITH, ROBERT C.	PENDING	04/01/2002	
3W67MH0094884-1	MECHANISMS OF BLOCK OF NMDA ACTIVATED CHANNELS	SMITH, ROBERT C.	AWARDED	09/01/2000	Notice of Grant Award
1R03MH0094333-1	MECHANISMS OF BLOCK OF NMDA ACTIVATED CHANNELS	SMITH, ROBERT C.	PENDING	09/01/2001	Progress Report Face Page
2R03MH0674214-2	MECHANISMS OF BLOCK OF NMDA-ACTIVATED CHANNELS	SMITH, ROBERT C.	AWARDED	12/01/2000	Notice of Grant Award
	MECHANISMS OF BLOCK OF	SMITH,	AWARDED	12/01/1997	

Document: Done

Grant Status – Details

Status Information

Status:	Study Section review pending.
Institution Name:	STATE UNIVERSITY
School Name:	FACULTY OF ARTS AND SCIENCES
School Category:	SCHOOLS OF ARTS AND SCIENCES
Division Name:	NONE
Department Name:	NEUROSCIENCES
PI Name:	SMITH, BOB W
Grant #:	2R00SU046781-12
Proposal Title:	Interaction of Ions with NMDA Receptors
Proposal Receipt Date:	07/01/2001
Last Status Update Date:	07/16/2001
Current Award Notice Date:	

Status History

Effective Date	Status Message	Primary Institute or Center Assignment	
		Institute Name	Institute Center Assignment Date
		NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	07/11/2002
		Dual Institute or Center Assignment	
		Institute Name	Institute Center Assignment Date
		NATIONAL HEART, LUNG, AND BLOOD INSTITUTE	07/04/2002
		NATIONAL INSTITUTE OF MENTAL HEALTH	07/05/2001

Application Information		Study Section		Advisory Council(AC) Information	
Award Document Number:	R1MH45817C	Init. Review Group:	MDCN-3	Meeting Location: Humming Bird Complex 3 123 Jeevan Ave.3 Monica International Inc.1 Fairfax 3	
FSR Accepted Code:	N	Council Meeting Date(YYYYMM):	200201	Meeting Date:	09/16/2001
Snap Indicator Code:				Meeting Time:	0600

Contacts

Administration	Name	Phone	Email
Scientific Review Administrator(SRA)	Lang, Michael A.	(301) 435-1265	
Grants Management Specialist(GMS)	Smith, Bonnie	(301) 443-3483	
Program Official(PO)	Brady, Linda S.	301-443-5288	

Progress Report Face Page

eSNAP Functionality

- **Available for Most "R" Mechanisms**
- **Submission 45 days prior to anniversary**
- **Submission of Research Accomplishments**
- **Customizable Workflow**
  - **PI May be Delegated Submit Authority by SO**
- **Presentation of Personnel Data Page**
- **Major Usability Upgrade in March**
- **Submitted eSNAPs appear in Grant Folder**

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eSNAP – Snap Questions and Checklist

Edit SNAP Questions and Checklist - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

← Back ▼ → ▼ ⊗ ⟳ ⌂ | ◎ Search ⌂ Favorites ◇ History | ⬚▼ ⬚ ⬚ ▼ ⬚ ◇ ⬚ ◇ ⬚ ⬚

Address | http://impacwebdev2.oer.od.nih.gov:8059/commons/esnap/questionsAndChecklistEdit.jsp;jsessionid=2bfa4bbb45674de694ddb08a8f25481f | ⊘Go

Grantee Institution: UNIVERSITY OF PITTSBURGH AT PITTSBURGH

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eSNAP

Has there been a change in the other support of key personnel since the last reporting period?*

⊙ No ○ Yes

If yes, please justify:

[   ]

Will there be, in the next budget period, a significant change in the level of effort for key personnel from what was approved for this project?*

⊙ No ○ Yes

If yes, please justify:

[   ]

Is it anticipated that an estimated unobligated balance (including prior year carryover) will be greater than 25% of the current year's total Budget?*

○ No ⊙ Yes

If yes, please justify:

We found oil on the property.

Human Subjects

Does the proposal involve human subjects?*

⊙ No ○ Yes

Has the involvement of human subjects changed since the previous submission?*
If yes, the change must be addressed in the Progress Report.

⊙ No ○ Yes

Is the research exempt? *

○ No ⊙ Yes

Required if research is exempt

⬚ Done   🌐 Internet

eSNAP Deployment

- **Fall 2002 – Low Profile Pilot (50 eSNAPs)**
- **Spring 2003 –Pilot (500 eSNAPs)**
  - **Usability – Much more seamless**
  - **Demo Facility – Allows Institutions to Train/Practice**
  - **Allows us to work Internal NIH Issues**
- **Fall 2003**
  - **eSNAP Universally Available**
- **Today - Available in eRA**

Financial Status Report (FSR)

- **Replaces Mainframe TSO system**
- **Search for Grants based upon Due Date**
- **Submit new/revised FSR**
- **View FSR status (due, late, received etc.)**
- **Submitted FSRs Appear in "Status"**
- **Integrates with NIH Accounting System**

FSR – Form Screen

File   Edit   View   Favorites   Tools   Help

← Back ▾ → ▾ ⊗ ⌂ ⌂ | ⊗ Search ⌂ Favorites ⊗ History | ⊡ ▾ ⊟ ▾ ⊟ ⊙ ⊛ ⊘ ⅄ ⊡

Address ⊡ http://impacwebdev2.oer.od.nih.gov:8059/commons/fsr/FSREdit.jsp;jsessionid=2bfa4bbb45674de694ddb08a8f25481f   ▾ ⬦Go

Financial Status Report ⊙

Back to Search Result   FSR New Search

Long Form

| Save | Cancel | **Prior Unexpended Balance** | 546.23 |

1. Federal Agency and Organizational Element to Which Report is Submitted NATIONAL INSTITUTE OF MENTAL HEALTH	2. Federal Grant or Other Identifying Number 2R00SU046781-12	
3. Recipient Organization (Name and complete address, including ZIP code) STATE UNIVERSITY 1000 STATE BLVD, SUITE 4200 FAIRFAX, VA 22032	4. Employer Identification Number 234545891A2	
	5. Recipient Account Number or Identifying Number * 6hc58nh	
	6. Final Report ⊙ Yes ○ No	7. Basis ⊙ Cash ○ Accrual

8. Funding/Grant Period		9. Period Covered by this Report	
From 09/30/1999	To 08/31/2003	From 09/30/1999	To 08/31/2000

10. Transactions:	Previously Reported	This Period	Cumulative
a. Total outlays	34353	4353	38,706.00
b. Refunds, rebates, ect	3434	3435	6,869.00
c. Program income used in accordance with the deduction alternative	342	4534	4,876.00
d. Net outlays (Line a, less the sum of lines b and c)	30,577.00	-3,616.00	26,961.00
Recipient's share of net outlay, consisting of:			
e. Third Party (In-kind) contributions	0.00	0.00	0.00
f. Other Federal awards authorized to be used to match this award	0.00	0.00	0.00
g. Program income used in accordance with the deduction alternative	0.00	0.00	0.00
h. All other recipient outlays not shown on lines e, f or g	0.00	0.00	0.00
i. Total recipient share of net outlays (Sum of lines e, f, g and h)	0.00	0.00	0.00

⊡ Done   ⊙ Internet

Internet Assisted Review

- Web-based system to manage the process of electronic submission of critiques by reviewers.

- IAR expedites the scientific review of grant applications by standardizing the current process of critique and initial priority score submissions by reviewers via the Internet.

- IAR enables reviewers to submit critiques and view each other's reviews before the actual meeting.

- Review meetings contain more informed discussions because reviewers are able to read the evaluations entered by others prior to the review meeting (except where there is a conflict of interest).

X-Train

- **The Commons Electronic Trainee Activities interface (X-Train) provides the means for NIH-supported Post Doctoral students and trainees to provide NIH with the information needed to administer their National Research Service Award (NRSA) training grants**

- **Required information includes:**
  - **Address**
  - **Educational background**
  - **NIH monetary support**
  - **Training appointment period**

CRISP

- **CRISP is a searchable database of federally funded biomedical research projects conducted at universities, hospitals, and other research institutions**

- **30,000 queries per week**

- **Users, including the public, query the CRISP interface to search for scientific concepts, emerging trends and techniques, or to identify specific projects and/or investigators**

CGAP
Competing Grant Application Process

- Business to Government
- Coordination with Government wide eGRANTS initiative
- In pilot mode
- Successful electronic grant submissions

Commons Profile Administration

- **Account Administration (One Profile Across NIH)**
  - **Foundation of all Applications**
  - **Foundation of CGAP/eGrants**
- **Access to all eRA modules**
  - **Internet Assisted Review**
  - **Status**
  - **Financial Status Report**
  - **eSNAP**

Creating an Account

- **All Roles other than PI is Immediate**
- **For PI/Reviewer It may take 3-4 days. Why?**
  - **NIH may have Multiple Profiles**
  - **Semi-Automated Process to Consolidate Multiple Profiles**
  - **Clean-up Data**
    - **Personal Information**
    - **Address**
    - **Degrees**
  - **Be Patient – This process will get Better!**

Institution Registration

- **Process to Register Institution:**
  - **Signing Official Fills out a Web Based Form**
  - **Submits to NIH**
  - **Prints Form, Signs and Faxes (for signature)**
  - **NIH Validates and Initial Accounts are Sent**
- **Once Institution is Registered, Signing Official:**
  - **Registers rest of Institution Staff (Affiliate IAR Users)**
    - **PI – Principal Investigator**
    - **SO – Signing Official**
    - **AO – Administrative Official**
    - **AA – Administrative Assistant (Maintain Accounts)**
    - **ASST – Assistant (No access but may be delegated rights)**
    - **FSR – Access to FSR**
  - **Maintains Institution Profile (IPF)**

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Signing Official (SO)

- **Create/Maintain Accounts**
- **View All Applications in Institution Except:**
  - **Summary Statements**
  - **Scores**
  - **Specific Award Status**
- **Submit eSNAP to NIH**
  - **It is possible to Delegate this Function**

Administrative Official (AO)

- **Same Rights of the SO**
  - **Create/Maintain Accounts**
  - **View All Applications**
- **Except:**
  - **Can not Submit eSNAPs**
  - **Can not Create Signing Officials**
  - **Can only Maintain Accounts they have Created**

Principal Investigator (PI)

- **Full Access to Own Applications**
- **Initiate an eSNAP**
- **Route eSNAP to Next Reviewer**

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Assistant (ASST)

- **ASST Role has Virtually No Access**
- **Intended for PI Delegation**

Accounts Administrator (AA)

- **Create/Maintain Accounts**
- **Today AA is a Role and is Restricted**

Other Roles

- **FSR – Access to FSR Application**
- **IAR – Access to IAR for Pre Meeting Critique Submission**
- **CGAP - For Pilot e- app submissions**

Single Point of Ownership (SPO)

- **Guiding Principle of SPO is to avoid conflicts between between NIH and Extramural Users**
- **Personal** Profile
  - **Name**
  - **Date of Birth**
  - **Addresses**
  - **Degrees**
  - **Publications**
- **Institution Profile (IPF)**
  - **Basic Institution Administration (DUNS, HSA#, AWA#)**
  - **Assurances and Certifications**
  - **Addresses**
- **Human Subject Progress Report Submission (July)**

IMPAC II Modules

- **Committee Management (CM)**
- **Grants Management (GM)**
- **Grant Closeout (GCS)**
- **IC Operations (ICO)**
- **Program Module**
- **Population Tracking (POP)**
- **Receipt, Referral & Assignment (R&R)**
- **Scientific Peer Review (REV)**
- **Special Initiatives Tracking System (SITS)**
- **Training Activities (TA)**
- **Reporting Tools & Databases**

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Committee Management (CM)

- **Used to create new committees and track details of existing and standing committees**

- **Facilitates nomination and appointment process for appointee/members**

- **Prepares committee nomination slate packages for approval**

- **Sets up review meetings, meeting rosters, and meeting agenda details**

- **Generates the Federal Register Notice**

Grants Management (GM)

- **Supports NIH Grants Management Offices**
- **Functionality Includes:**
  - **Budget data entry and spreadsheet importation**
  - **Principal Investigator (PI) data entry and update**
  - **Rule-based edit checks**
  - **Generation and storage of Notice of Grant Awards (NGAs)**

Grants Closeout System (GCS)

- **1st application developed using J2EE technology**

- **Released for pilot testing May 2002**

- **System provides**
  - **Identification of grants eligible for closeout**
  - **Generation of email to Business Official and Principal Investigator (PI) requesting missing closeout items**
  - **Ability to view PI's involvement in other grants**
  - **Tracking and reporting on items required for closeout**

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IC Operations (ICO)

- **Contains functionality used by multiple business areas throughout NIH**
- **Assigns Program Class Code (PCC) and Program Official (PO) to grant applications**
- **Used by PO to manage grant portfolio**
- **Updates "intent-to-pay"**
- **e-SNAP view and sign off capability currently under development**

Program Module

- **Getting information quickly on a grant's status when a P.I. calls, using the SEARCH feature**
- **Quickly accessing your assigned grants and related documents, using MY PORTFOLIO**
- **Monitoring your portfolio workload at each stage of the grant cycle, including Pre-Submission, Pending SRG, Pre-Council, Post Council, Pending Type 5s, and Post Award.**
- **Providing Program Approval for pre-award and Progress Reports requirements while in MY PORTFOLIO**
- **Accessing reports and exporting lists to Excel from each portfolio**
- **Linkage to other electronic Research Administration (eRA) modules, e.g., Commons, ECB, QVR, QuickView, etc.**

Population Tracking Module (POP)

- **The IMPAC II Population Tracking Module records NIH tracking data involving the target and yearly cumulative enrollment of women and minorities participating in clinical research**

- **Full deployment will allow all ICs to discontinue use of extension systems and use this comprehensive module instead**

- **Version 1 released May 2002**

Receipt, Referral & Assignment (R&R)

- **Used for receipt, processing and assignment of competing grant applications for all NIH Institutes and Centers and selected components of HHS**

- **Used by Center for Scientific Review (CSR) only**

Scientific Peer Review (REV)

- **Grant scanning**
- **Electronic preparation and distribution of Summary Statements**
- **Analysis of prospective reviewers**
- **Assignment of reviewers to specific review meetings**
- **Grantee Institution conflict-of-interest checking**
- **Internet-Assisted Review Module currently in development**

Special Initiatives Tracking System (SITS)

- **Used to create and track special supplements for minority, disability, and re-entry (women) supportees**

- **Provides capability for supplement to be awarded and rolled-in to parent grant**

Training Activities (TA)

- **Supports NIH's National Research Service Award (NRSA) business operations for processing trainee appointments, terminations and payback obligations**

- **Serves as repository for records of both paper and electronic documents sent to NIH by PIs**

- **Provides interface to OFM for financial payback accounting**

eRA Shared Modules

- **Grants Update Module (GUM)**
- **Grant Folder**
- **ICSTORe**
- **Persons Module**
- **User Administration**

Reporting Tools & Databases

- **<u>IC</u> <u>S</u>earch, <u>T</u>rack, <u>O</u>rder, and <u>R</u>eporting of Documents (ICSTORe)**
- **PowerView (PV)**
- **QuickView (QV)**
- **IMPAC II Reporting DataBase (IRDB)**
  - **Provides source data for all IC extension systems**

eRA Key IMPACII Modules

- **Committee Management (CM)**
- **Grants Management (GM)**
- **Program (PGM)**
- **Receipt and Referral (RR)**
- **Review (REV)**
- **Training Activities (TA)**

IMPACII Modules and Query Tools
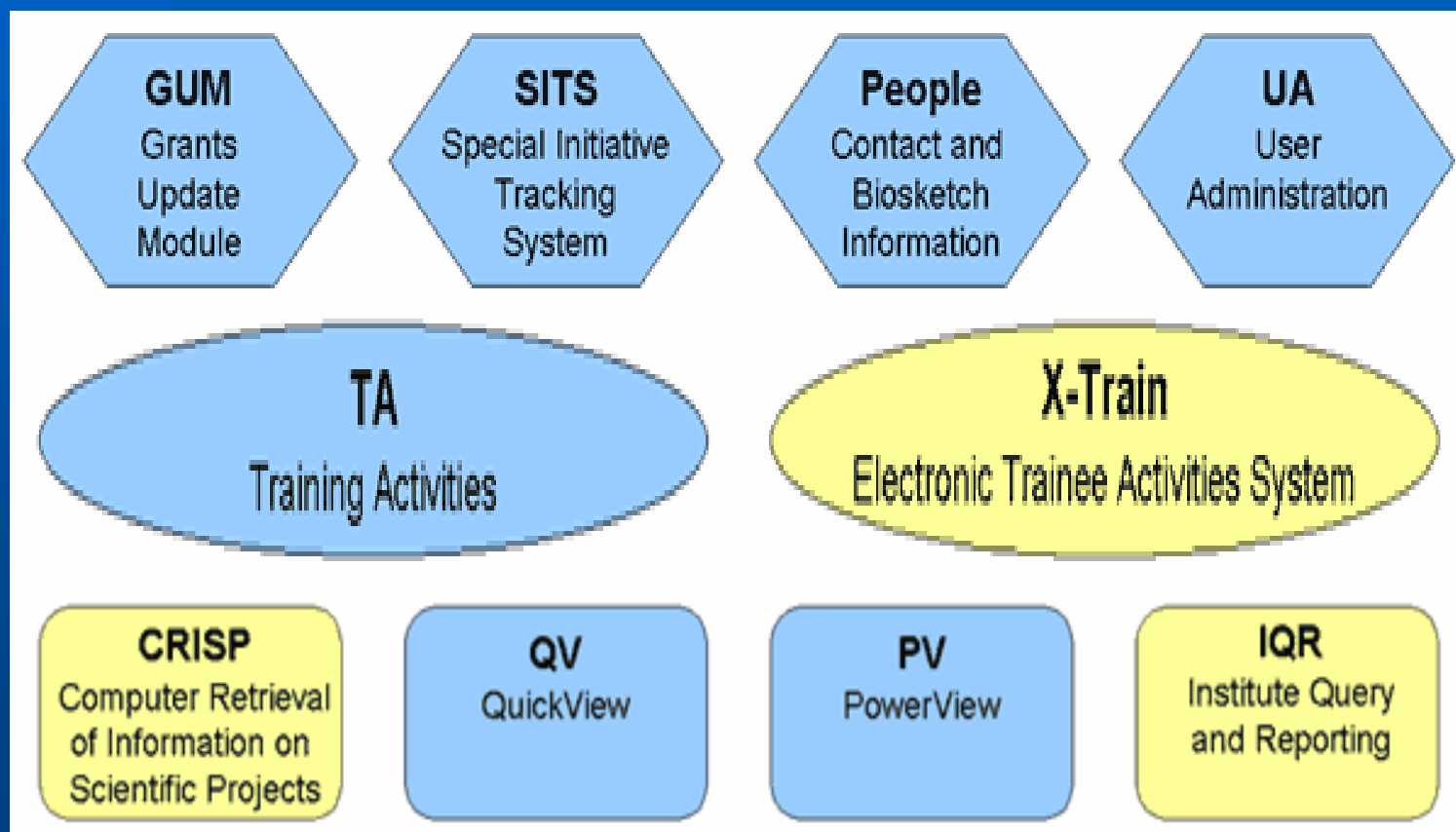
Grants Process

Commons Administrative Modules
CGAP – Competitive Grant Application
RR – Receipt, Referral, Assignment
CM – Committee Management
REV – Review
ECB – Electronic Council Book
GM – Grants Management
Status – Commons Status
ICO – Institute and Center Operations
e-SNAP – Streamlined Non-Competing Award Process
IEdison – Invention Reporting

eRA Benefits to Grantee & NIH Staff

	Grantee Users	NIH staff
Improved Resource Allocation	• Reduction in paper & handling costs	• Reduction in duplication disposal costs • Fewer staff required for processing and oversight
Improved Work Efficiency	• monitoring of status information • Improved information retrieval	• Reduction in number of telephone inquiries • Improved information retrieval
Improved Quality of Data	• Most accurate grantee Representation – Prof./Inst. profiles • Data validation – User interface & system	• Minimize duplicate versions of people Minimize grantee contact to verify information
Improved Response Time	• Rapid, confidential viewing of documents – Sum. Stmt./Score	• Purposeful notification of cognizant staff

Interagency Edison (iEdison)

- **Interagency Edison (iEdison) provides Federal grantee/contractor organizations and participating federal agencies with the technology to electronically manage extramural invention portfolios in compliance with federal reporting requirements**

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iEdison – Participating Agencies

- **National Institutes of Health (NIH)**
- **United States Department of Agriculture - Cooperative State Research, Education, and Extension Service (USDA/CSREES)**
- **U.S. National Oceanic & Atmospheric Administration (NOAA)**
- **U.S. Food and Drug Administration (FDA)**
- **U.S. Agency for International Development (USAID)**
- **Centers for Disease Control and Prevention (CDC)**

- **Agency for Toxic Substances and Disease Registry (ASTDR)**
- **National Science Foundation (NSF)**
- **Medical Research and Material Command (ARMY/MRMC)**
- **Air Force Office of Scientific Research (USAF/AFOSR)**
- **Agency for Health Care Research and Quality (AHRQ)**
- **Environmental Protection Agency (EPA)**
- **Office of Naval Research (NAVY/ONR)**
- **Forest Service (USDA/FS)**

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eRA Architectural Considerations

- **Client Server Applications**
- **J2EE Applications**
- **Middle Tier**
- **IMPPRD**
- **IRDBPRD**
- **Windows 2000**
- **Sun**
- **Compaq**

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eRA System Hardware

- **Production:**
  - **Production Cluster**
  - **SAN, Load Balancing**
  - **6 middle-tier (application) servers**
  - **3 terabytes of storage**
- **Development (testing, training, staging):**
  - **3 back-end servers**
  - **3 middle-tier servers**
  - **3 terabytes of storage**
- **eRA data center comprises more than 30 machines hosted at CIT**
- **Linked to user community via NIH backbone**

Challenges: Additional Demands

- **J2EE migration not complete**
- **OPDIV Integration**
- **Changes in Congressional mandates**
- **IC Coding System – new, standardized data structure for ICs**
- **New business intelligence tools, concept mapping, knowledge management, OLAP**
- **Flexible architecture**

eRA FY 2004 Priorities

- **Expansion and enhancement of Commons**
- **End to end Electronic applications**
- **NIH Roadmap, MEO, Grants.gov, knowledge management**

Questions/Comments/Thoughts